

# DatabaseReference

public class **DatabaseReference** (/docs/reference/android/com/google/firebase/database/Data

[java.lang.Object](https://developer.android.com/reference/kotlin/java/lang/Object.html) (https://developer.android.com/reference/kotlin/java/lang/Object.html)

↳ [com.google.firebase.database.Query](https://developer.android.com/reference/android/com/google/firebase/database/Query)

(/docs/reference/android/com/google/firebase/database/Query)

↳ [com.google.firebase.database.DatabaseReference](https://developer.android.com/reference/android/com/google/firebase/database/DatabaseReference)

(/docs/reference/android/com/google/firebase/database/DatabaseReference)

A Firebase reference represents a particular location in your Database and can be used for reading or writing data to that Database location.

This class is the starting point for all Database operations. After you've initialized it with a URL, you can use it to read data, write data, and to create new DatabaseReferences.

## Summary

### Nested types

public interface **DatabaseReference.CompletionListener**

(/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener)

This interface is used as a method of being notified when an operation has been acknowledged by the Database servers and can be considered complete

### Public methods

[@NonNull](https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) **child** (/docs/reference/android/com/google/firebase/database/DatabaseReference) (https://) Get a ref

boolean **equals** (https://) Returns true if the given reference is equal to this reference.

[@NonNull](https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) **getDatabase** (/docs/reference/android/com/google/firebase/database/FirebaseDatabase) Gets the DatabaseReference for the current database.

## Public methods

<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> ) <b>String</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/String.html">https://developer.android.com/reference/kotlin/java/lang/String.html</a> )	<b>getKey()</b>
<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> ) <b>DatabaseReference</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> )	<b>getParcelable()</b>
<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <b>DatabaseReference</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> )	<b>getRoot()</b>
<b>static void</b>	<b>goOffline()</b> Manually
<b>static void</b>	<b>goOnline()</b> Manually
<b>int</b>	<b>hashCode()</b>
<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <b>OnDisconnect</b> ( <a href="/docs/reference/android/com/google/firebase/database/OnDisconnect">/docs/reference/android/com/google/firebase/database/OnDisconnect</a> )	<b>onDisconnect()</b> Provides
<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <b>DatabaseReference</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> )	<b>push()</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> ) Create a
<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <b>Task</b> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) < <b>Void</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Void.html">https://developer.android.com/reference/kotlin/java/lang/Void.html</a> )>	<b>remove()</b> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> ) Set the v
<b>void</b>	<b>removeValue()</b> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> ) Set the v
<b>void</b>	<b>runTransaction()</b> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) Run a tra
<b>void</b>	<b>runTransactionAtomic()</b> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) Run a tra

Public methods

	<code>handle</code> <code>boc</code> )  Run a tra
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>setPric</code> <code>Task</code> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://</a> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) < <code>Void</code> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Void.html">https://developer.android.com/reference/kotlin/java/lang/Void.html</a> )> Set a pric	
<code>void</code> <code>setPric</code> @Nl @Nl (/docs/r ) Set a pric	
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>setValu</code> <code>Task</code> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://</a> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) < <code>Void</code> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Void.html">https://developer.android.com/reference/kotlin/java/lang/Void.html</a> )> Set the d	
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<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>setValu</code> <code>Task</code> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://</a> ( <a href="https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html">https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html</a> ) ( <a href="https://&lt;/a&gt;&lt;br/&gt;&lt;&lt;code&gt;Void&lt;/code&gt; (&lt;a href=" https:="" java="" kotlin="" lang="" reference="" void.html"="">https://developer.android.com/reference/kotlin/java/lang/Void.html</a> )> Set the d	
<code>void</code> <code>setValu</code> @Nl @Nl @Nl (/docs/r ) Set the d	
<code>String</code> ( <a href="https://developer.android.com/reference/kotlin/java/lang/String.html">https://developer.android.com/reference/kotlin/java/lang/String.html</a> ) <code>toStrir</code>	

## Public methods

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **updateChild** (<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>) (<https://developer.android.com/reference/kotlin/java/lang/Void.html>)>

Update the

void

**updateChild** ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)  
(  
@Nc  
([https://r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)  
@Nl  
([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)  
)

Update the

## Inherited methods

From [com.google.firebase.database.Query](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html) ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **addChildEventListener** ([/docs/r](https://docs/reference/android/com/google/firebase/database/ChildEventListener.html)  
([/docs/reference/android/com/google/firebase/database/ChildEventListener](https://docs/reference/android/com/google/firebase/database/ChildEventListener.html)) (**@NonNull** ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)

Add a list

void

**addListener** ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)  
(**@NonNull** ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)

Add a list

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **addValueEventListener** ([/docs/r](https://docs/reference/android/com/google/firebase/database/ValueEventListener.html)  
([/docs/reference/android/com/google/firebase/database/ValueEventListener](https://docs/reference/android/com/google/firebase/database/ValueEventListener.html)) (**@NonNull** ([/docs/r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)

Add a list

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **endAt** ([/docs/reference/android/com/google/firebase/database/Query](https://docs/reference/android/com/google/firebase/database/Query.html)) ([https://r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)  
([https://r](https://docs/reference/android/com/google/firebase/database/DatabaseReference.html)

Inherited methods

	Creates a default.
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endAt</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a default.
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endAt</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a default.
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endAt</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> ) ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> ) ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> ) ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )
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<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endAt</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> ) ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )
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<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endBefore</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> ) ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )
	Creates a
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endBefore</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a
<code>@NonNull</code> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> ) <code>endBefore</code> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a

Inherited methods

@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>endBefore</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given start and end values. The start and end values are inclusive. The start value is the value of the first child, and the end value is the value of the last child. The start and end values are specified as strings in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>endBefore</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given start and end values. The start and end values are inclusive. The start value is the value of the first child, and the end value is the value of the last child. The start and end values are specified as strings in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>endBefore</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given start and end values. The start and end values are inclusive. The start value is the value of the first child, and the end value is the value of the last child. The start and end values are specified as strings in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>equalTo</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given equality constraint. The equality constraint is a string in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>equalTo</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given equality constraint. The equality constraint is a string in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>equalTo</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given equality constraint. The equality constraint is a string in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>equalTo</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given equality constraint. The equality constraint is a string in the format "key/value".
@ <b><u>Nonnull</u></b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nonnull.html</a> )	<b><u>equalTo</u></b> ( <a href="https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query">https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query</a> )	Creates a new Query object with the same constraints as the current Query, but with the given equality constraint. The equality constraint is a string in the format "key/value".

## Inherited methods

Creates a

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **equalTo** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>)

Creates a

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **getTask** (<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>) Gets the **<DataSnapshot** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/DataSnapshot>)>

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **getReference** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference>)

**void** **keepSynced** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference>) By calling **keepSynced** on the attached **DatabaseReference**, the data at the location will be kept in sync with the local database.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **limitToLast** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that limits the results to the last **limit** results.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **limitToFirst** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that limits the results to the first **limit** results.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **orderBy** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that orders the results by the specified **orderBy** value.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **orderBy** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that orders the results by the specified **orderBy** value.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **orderBy** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that orders the results by the specified **orderBy** value.

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) **orderBy** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/Query>) Creates a **Query** that orders the results by the specified **orderBy** value.

**void** **removeValue** (<https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference>) Removes the data at the location.

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	<div><div><div><div>@NonNull</div><div>(/docs/r</div></div></div></div>
	<div>Remove i</div>
void	<div><div><div><div>removeE</div><div>(/docs/r</div></div><div><div>@NonNull</div><div>(/docs/r</div></div></div></div>
	<div>Remove i</div>
@NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Query (/docs/reference/android/com/google/firebase/database/Query)	<div><div><div><div>startAt</div><div>(https://</div></div><div><div>(https://</div></div></div></div>
	<div>Creates a</div>
@NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Query (/docs/reference/android/com/google/firebase/database/Query)	<div><div><div><div>startAt</div><div>(https://</div></div><div><div>(https://</div></div></div></div>
	<div>Creates a</div>
@NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Query (/docs/reference/android/com/google/firebase/database/Query)	<div><div><div><div>startAt</div><div>(https://</div></div><div><div>(https://</div></div></div></div>
	<div>Creates a</div>
@NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Query (/docs/reference/android/com/google/firebase/database/Query)	<div><div><div><div>startAt</div><div>(https://</div></div><div><div>(https://</div></div></div><div><div>(https://</div></div><div><div>(https://</div></div></div>



Inherited methods

@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.
@ <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">NonNull</a> (/docs/reference/android/com/google/firebase/database/Query)	<a href="#">startAt</a> (/docs/reference/android/com/google/firebase/database/Query)	Creates a Query object that filters the results to start at the specified value.

Public methods

## child

public **@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Get a reference to location relative to this one

### Parameters

<b>@NonNull</b>	The relative path from
( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> )	reference to the new
<b>String</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/String.html">https://developer.android.com/reference/kotlin/java/lang/String.html</a> )	should be created
<b>pathString</b>	

### Returns

<b>@NonNull</b>	A new DatabaseReference
( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> )	given path
<b>DatabaseReference</b>	
( <a href="https://docs.google.com/firebase/database/DatabaseReference">/docs/reference/android/com/google/firebase/database/DatabaseReference</a> )	

## equals

public boolean **equals** ([/docs/reference/android/com/google/firebase/database/DatabaseReferen](https://docs.google.com/firebase/database/DatabaseReference)

## getDatabase

public **@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Gets the Database instance associated with this reference.

---

## Returns

**@NonNull** The Database object  
 (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)reference.  
**FirebaseDatabase**  
 ([/docs/reference/android/com/google/firebase/database/FirebaseDatabase](https://docs.google.com/firebase/database/FirebaseDatabase))

---

## getKey

public @**Nullable** (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>)

---

## Returns

**@Nullable** The last token in the  
 (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>)pointed to by this ref  
**String** (<https://developer.android.com/reference/kotlin/java/lang/String.html>) if this reference poin  
 database root

---

## getParent

public @**Nullable** (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>)

---

## Returns

**@Nullable** A DatabaseReference  
 (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>)parent location, or n  
**DatabaseReference** instance references  
 ([/docs/reference/android/com/google/firebase/database/DatabaseReference](https://docs.google.com/firebase/database/DatabaseReference)) location

---

## getRoot

public @**Nonnull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

---

## Returns

@**Nonnull** A reference to the root of the database.  
 (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)this DatabaseReference  
**DatabaseReference**  
 (/docs/reference/android/com/google/firebase/database/DatabaseReference)

---

## goOffline

public static void **goOffline** (/docs/reference/android/com/google/firebase/database/DatabaseReference)

Manually disconnect the Firebase Database client from the server and disable automatic reconnection.

Note: Invoking this method will impact all Firebase Database connections.

## goOnline

public static void **goOnline** (/docs/reference/android/com/google/firebase/database/DatabaseReference)

Manually reestablish a connection to the Firebase Database server and enable automatic reconnection.

Note: Invoking this method will impact all Firebase Database connections.

## hashCode

public int **hashCode** (/docs/reference/android/com/google/firebase/database/DatabaseReference

## onDisconnect

public **@NonNull** (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html)

Provides access to disconnect operations at this location

---

### Returns

<b><u>@NonNull</u></b>	An object for managing
(https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html)	disconnect operations at this
<b><u>OnDisconnect</u></b>	location
(/docs/reference/android/com/google/firebase/database/OnDisconnect)	

---

## push

public **@NonNull** (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html)

Create a reference to an auto-generated child location. The child key is generated client-side and incorporates an estimate of the server's time for sorting purposes. Locations generated on a single client will be sorted in the order that they are created, and will be sorted approximately in order across all clients.

---

### Returns

<b><u>@NonNull</u></b>	A DatabaseReference
(https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html)	the new location
<b><u>DatabaseReference</u></b>	
(/docs/reference/android/com/google/firebase/database/DatabaseReference)	

---

## removeValue

public @**Nonnull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Set the value at this location to 'null'

---

### Returns

@**Nonnull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) The **Task** (<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>) for this operation. **Void** (<https://developer.android.com/reference/kotlin/java/lang/Void.html>)>

---

## removeValue

public void **removeValue** ([/docs/reference/android/com/google/firebase/database/DatabaseReference](https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference))

Set the value at this location to 'null'

---

### Parameters

@**Nullable** (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>) A list of **DatabaseReference.CompletionListener** ([/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener](https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener)) where the listener is called when the value is removed.

---

## runTransaction

public void **runTransaction** ([/docs/reference/android/com/google/firebase/database/DatabaseReference](https://firebase.google.com/docs/reference/android/com/google/firebase/database/DatabaseReference))

Run a transaction on the data at this location. For more information on running transactions, see **Transaction.Handler**

(/docs/reference/android/com/google/firebase/database/Transaction.Handler).

Parameters

<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> )	An object to handle the transaction
<b>Transaction.Handler</b> (/docs/reference/android/com/google/firebase/database/Transaction.Handler)	
<b>handler</b>	

runTransaction

```
public void runTransaction (/docs/reference/android/com/google/firebase/database/DatabaseReference) @NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Transaction.Handler handler, boolean fireLocalEvents)
```

Run a transaction on the data at this location. For more information on running transactions, see [Transaction.Handler](#) (/docs/reference/android/com/google/firebase/database/Transaction.Handler).

Parameters

<b>@NonNull</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html">https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html</a> )	An object to handle the transaction
<b>Transaction.Handler</b> (/docs/reference/android/com/google/firebase/database/Transaction.Handler)	
<b>handler</b>	
<b>boolean fireLocalEvents</b>	Defaults to true. If set to false, only the final result state of the transaction will be fired, and not intermediate states

setPriority

`public @NotNull` (<https://developer.android.com/reference/kotlin/androidx/annotation/NotNull.html>)

Set a priority for the data at this Database location. Priorities can be used to provide a custom ordering for the children at a location (if no priorities are specified, the children are ordered by key). You cannot set a priority on an empty location. For this reason `setValue(data, priority)` should be used when setting initial data with a specific priority and `setPriority` should be used when updating the priority of existing data. Children are sorted based on this priority using the following rules:

- Children with no priority come first.
- Children with a number as their priority come next. They are sorted numerically by priority (small to large).
- Children with a string as their priority come last. They are sorted lexicographically by priority.
- Whenever two children have the same priority (including no priority), they are sorted by key. Numeric keys come first (sorted numerically), followed by the remaining keys (sorted lexicographically).

Note that numerical priorities are parsed and ordered as IEEE 754 double-precision floating-point numbers. Keys are always stored as strings and are treated as numeric only when they can be parsed as a 32-bit integer.

---

## Parameters

<code>@<b>Nullable</b></code>	The priority to set at
( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	location or null to clear
<code><b>Object</b></code> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Object.html">https://developer.android.com/reference/kotlin/java/lang/Object.html</a> )	existing priority
<code>priority</code>	

---

## Returns

`@NotNull` (<https://developer.android.com/reference/kotlin/androidx/annotation/NotNull.html>) The `Task` (<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>) for this operation.  
`<Void` (<https://developer.android.com/reference/kotlin/java/lang/Void.html>)>

---



## setPriority

```
public void setPriority(/docs/reference/android/com/google/firebase/database/DatabaseReference
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) Object
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) Priority
)
```

Set a priority for the data at this Database location. Priorities can be used to provide a custom ordering for the children at a location (if no priorities are specified, the children are ordered by key). You cannot set a priority on an empty location. For this reason `setValue(data, priority)` should be used when setting initial data with a specific priority and `setPriority` should be used when updating the priority of existing data. Children are sorted based on this priority using the following rules:

- Children with no priority come first.
- Children with a number as their priority come next. They are sorted numerically by priority (small to large).
- Children with a string as their priority come last. They are sorted lexicographically by priority.
- Whenever two children have the same priority (including no priority), they are sorted by key. Numeric keys come first (sorted numerically), followed by the remaining keys (sorted lexicographically).

Note that numerical priorities are parsed and ordered as IEEE 754 double-precision floating-point numbers. Keys are always stored as strings and are treated as numeric only when they can be parsed as a 32-bit integer.

### Parameters

@ <b>Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> ) <b>Object</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Object.html">https://developer.android.com/reference/kotlin/java/lang/Object.html</a> ) <b>priority</b>	The <b>priority</b> of the location. If <b>priority</b> is <b>null</b> , the location exists but has no priority.
@ <b>Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> ) <b>DatabaseReference.CompletionListener</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener">/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener</a> ) <b>listener</b>	A list with <b>listener</b> with which to register the <b>listener</b> .

## setValue

public @**Nonnull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Set the data at this location to the given value. Passing null to setValue() will delete the data at the specified location. The native types accepted by this method for the value correspond to the JSON types:

- Boolean
- Long
- Double
- String
- Map<String, Object>
- List<Object>

In addition, you can set instances of your own class into this location, provided they satisfy the following constraints:

1. The class must have a default constructor that takes no arguments
2. The class must define public getters for the properties to be assigned. Properties without a public getter will be set to their default value when an instance is deserialized

Generic collections of objects that satisfy the above constraints are also permitted, i.e. Map<String, MyPOJO>, as well as null values.

---

### Parameters

@**Nullable** (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>) The value to set at the location. Passing null to delete the existing value.  
**Object** (<https://developer.android.com/reference/kotlin/java/lang/Object.html>) The value to set at the location.

---

### Returns

@**Nonnull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) The Task object for this operation.

---

## Returns

(<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>)  
 <[Void](https://developer.android.com/reference/kotlin/java/lang/Void.html)> (<https://developer.android.com/reference/kotlin/java/lang/Void.html>)>

---

## setValue

```
public void setValue (/docs/reference/android/com/google/firebase/database/DatabaseReference
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) Q
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) D
)
```

Set the data at this location to the given value. Passing null to setValue() will delete the data at the specified location. The native types accepted by this method for the value correspond to the JSON types:

- Boolean
- Long
- Double
- String
- Map<String, Object>
- List<Object>

In addition, you can set instances of your own class into this location, provided they satisfy the following constraints:

1. The class must have a default constructor that takes no arguments
2. The class must define public getters for the properties to be assigned. Properties without a public getter will be set to their default value when an instance is deserialized

Generic collections of objects that satisfy the above constraints are also permitted, i.e. Map<String, MyPOJO>, as well as null values.

## Parameters

<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	The \
<b>Object</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Object.html">https://developer.android.com/reference/kotlin/java/lang/Object.html</a> ) <b>value</b>	null t
<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	A list
<b>DatabaseReference.CompletionListener</b> ( <a href="https://docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener">https://docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener</a> )	with
<b>listener</b>	

## setValue

public **@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Set the data and priority to the given values. Passing null to setValue() will delete the data at the specified location. The native types accepted by this method for the value correspond to the JSON types:

- Boolean
- Long
- Double
- String
- Map<String, Object>
- List<Object>

In addition, you can set instances of your own class into this location, provided they satisfy the following constraints:

1. The class must have a default constructor that takes no arguments
2. The class must define public getters for the properties to be assigned. Properties without a public getter will be set to their default value when an instance is deserialized

Generic collections of objects that satisfy the above constraints are also permitted, i.e. Map<String, MyPOJO>, as well as null values.

## Parameters

**@Nullable** (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) The value to set at the **Object** (https://developer.android.com/reference/kotlin/java/lang/Object.html) null to delete the existing value

**@Nullable** (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) The priority to set at the **Object** (https://developer.android.com/reference/kotlin/java/lang/Object.html) or null to clear the existing priority

## Returns

**@NonNull** (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) The **Task** (https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html) for this operation **<Void** (https://developer.android.com/reference/kotlin/java/lang/Void.html)>

## setValue

```
public void setValue (/docs/reference/android/com/google/firebase/database/DatabaseReference
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) @
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) @
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) @
)
```

Set the data and priority to the given values. The native types accepted by this method for the value correspond to the JSON types:

- Boolean
- Long
- Double
- String
- Map<String, Object>
- List<Object>

In addition, you can set instances of your own class into this location, provided they satisfy the following constraints:

1. The class must have a default constructor that takes no arguments
2. The class must define public getters for the properties to be assigned. Properties without a public getter will be set to their default value when an instance is deserialized

Generic collections of objects that satisfy the above constraints are also permitted, i.e. `Map<String, MyPOJO>`, as well as null values.

---

## Parameters

---

<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	The \
<b>Object</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Object.html">https://developer.android.com/reference/kotlin/java/lang/Object.html</a> ) <b>value</b>	null t
<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	The p
<b>Object</b> ( <a href="https://developer.android.com/reference/kotlin/java/lang/Object.html">https://developer.android.com/reference/kotlin/java/lang/Object.html</a> ) <b>priority</b>	or nu
<b>@Nullable</b> ( <a href="https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html">https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html</a> )	A list
<b>DatabaseReference.CompletionListener</b> ( <a href="/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener">/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener</a> )	with
<b>listener</b>	

---

## toString

public **String** (<https://developer.android.com/reference/kotlin/java/lang/String.html>) **toString** (/d

---

## Returns

---

**String** (<https://developer.android.com/reference/kotlin/java/lang/String.html>) The full location url for this reference

---

## updateChildren

public **@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>)

Update the specific child keys to the specified values. Passing null in a map to updateChildren() will remove the value at the specified location.

### Parameters

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) The paths to update values  
**Map** (<https://developer.android.com/reference/kotlin/java/util/Map.html>)<**String** (<https://developer.android.com/reference/kotlin/java/lang/String.html>), **Object** (<https://developer.android.com/reference/kotlin/java/lang/Object.html>)> update

### Returns

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) The **Task** (<https://developers.google.com/android/reference/com/google/android/gms/tasks/Task.html>) for this operation  
 <**Void** (<https://developer.android.com/reference/kotlin/java/lang/Void.html>)>

## updateChildren

```
public void updateChildren (/docs/reference/android/com/google/firebase/database/DatabaseReference
    @NonNull (https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html) Map
    @Nullable (https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html) DatabaseReference
)
```

Update the specific child keys to the specified values. Passing null in a map to updateChildren() will remove the value at the specified location.

### Parameters

**@NonNull** (<https://developer.android.com/reference/kotlin/androidx/annotation/NonNull.html>) The paths to update values  
**Map** (<https://developer.android.com/reference/kotlin/java/util/Map.html>)<**String** (<https://developer.android.com/reference/kotlin/java/lang/String.html>), **Object** (<https://developer.android.com/reference/kotlin/java/lang/Object.html>)> update

---

## Parameters

---

@**Nullable** (<https://developer.android.com/reference/kotlin/androidx/annotation/Nullable.html>) A list  
**DatabaseReference.CompletionListener** with  
([/docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener](https://docs/reference/android/com/google/firebase/database/DatabaseReference.CompletionListener))  
**listener**

---

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